

## 1. PERFORMANCE

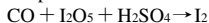
- 1) Measuring range : 0.2-20% 0.1-10%  
Number of pump strokes : 1/2 (50mℓ) 1 (100mℓ)
- 2) Sampling time : 2 minutes/1 pump stroke
- 3) Detectable limit : 0.01% (100mℓ)
- 4) Shelf life : 3 years
- 5) Operating temperature : 0 ~ 40 °C
- 6) Temperature compensation : Necessary (0 ~ 20 °C) (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Direct reading from the scale calibrated by 1 pump stroke
- 8) Colour change : White → Dark brown

## 2. RELATIVE STANDARD DEVIATION

RSD-low : 15% RSD-mid. : 15% RSD-high : 10%

## 3. CHEMICAL REACTION

Iodine pent-oxide is reduced



## 4. CALIBRATION OF THE TUBE

STANDARD GAS CYLINDER METHOD

## 5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	%	Coexistence
Acetylene	Similar stain is produced.	2	Higher reading are given.
Ethylene	∕	2	∕
Isobutane	Speckled stain is produced.	0.5	∕
Propane	∕		
Hexane	FIG.1 Similar stain is produced.	0.4	The top of discoloured layer becomes unclear and higher readings are given.

(NOTE)

In case of 1/2 pump strokes, following formula is available for the actual concentration.

Actual concentration = 2 × Temperature corrected value

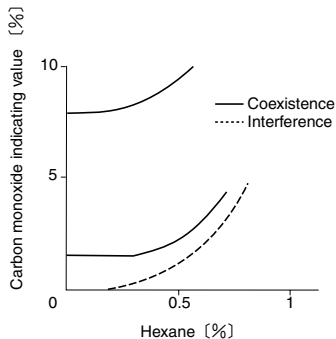


FIG.1 Influence of Hexane

TEMPERATURE CORRECTION TABLE

Scale Readings (%)	True Concentration (%)			
	0 °C (32 ° F)	5 ° C (50 ° F)	10 ° C (68 ° F)	20-40 ° C (104 ° F)
10.0	4.0	5.6	8.0	10.0
8.0	3.0	4.5	6.1	8.0
6.0	2.3	3.2	4.3	6.0
4.0	1.6	2.0	2.6	4.0
2.0	1.0	1.2	1.5	2.0
1.0	0.6	0.7	0.8	1.0
0.5	0.4	0.5	0.5	0.5